Appln. No.: 10/813,362

Amendment Dated August 3, 2006 Reply to Office Action of May 3, 2006

<u>Amendments to the Claims:</u> This listing of claims will replace all prior versions, and listings, of claims in the application

Listing of Claims:

- 1. (Canceled)
- 2. (Canceled)
- 3. (Canceled)
- 4. (Canceled)
- 5. (Canceled)
- 6. (Canceled)
- 7. (Canceled)
- 8. (Canceled)
- 9. (Canceled)
- 10. (Canceled)
- 11. (Canceled)
- 12. (Canceled)
- 13. (Canceled)
- 14. (Canceled)
- 15. (Canceled)
- 16. (Canceled)
- 17. (Canceled)
- 18. (Canceled)
- 19. (Canceled)
- 20. (Canceled)
- 21. (Canceled)
- 22. (Canceled)
- 23. (Canceled)

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- 24. (Canceled)
- 25. (Canceled)
- 26. (Canceled)
- 27. (Canceled)
- 28. (Canceled)
- 29. (Canceled)
- 30. (Canceled)
- 31. (Canceled)
- 32. (Canceled)
- 33. (Canceled)
- 34. (Canceled)
- 35. (Canceled)
- 36. (Canceled)
- 37. (Canceled)
- 38. (Canceled)
- 39. (Canceled)
- 40. (Canceled)
- 41. (Canceled)
- 42. (Canceled)
- 43. (Currently Amended) A method of docking,

said method comprising the steps of:

- a) detecting a feature using a feature detector; and
- b) actuating an actuator, responsive to detection of said feature, in order to move a moveable feature of a moveable feature receptacle in order to capture said feature and pull said feature in a linear directionA method of docking a test head to a peripheral according to claim 71,

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wherein:

step a) is preceded by the step of moving said test head towards said peripheral;

b)—said docking pin is coupled to said test head and said pin receptacle is coupled to said peripheral; and

step b) includes the step of docking said test head and said peripheral.

- 44. (Original) A method of docking a test head to a peripheral according to claim 43, wherein one of said docking members includes a cam follower, and step c) includes said method further including the step of sliding said pin receptacle so that said cam follower moves along a groove in said pin receptacle in order to dock said test head and said peripheral.
- 45. (Original) The method of claim 44, wherein said pin receptacle slides under power.
- 46. (Original) The method of claim 44, wherein movement of a piston causes said pin receptacle to slide.
- 47. (Original) The method of claim 44, wherein said pin receptacle slides as a result of rotation of an arm.
- 48. (Original) The method of claim 44, wherein force is applied to one end of an arm which rotates about a pivot point so that another end of said arm slides said pin receptacle.
- 49. (Original) The method of claim 44, wherein said groove follows a path extending between sides of said pin receptacle with one end of said path deeper into said pin receptacle than another end of said path.
 - 50. (Withdrawn) A docking module according to claim 61

wherein said feature is graspable engagement element attached to one of the test head and the peripheral, and

wherein said movable feature receptacle is a docking module attached to the other of the test head and the peripheral said docking module, comprising:

a) an alignment receptacle for receiving the alignment feature,

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b) a movable grasping member for receiving and grasping the graspable engagement element, said grasping member movable from a first position where the graspable element is received to a second position where the graspable element has been pulled, thus docking the test head and the peripheral,

- c) a detector for detecting when the graspable element is in a position to be grasped,
- d) an actuator for moving the movable grasping member in order to move the graspable element from a first position to a second position in order to dock said test head and said peripheral.
- 51. (Withdrawn) A docking mechanism according to claim 50, wherein movement of said graspable element from said first position to said second position is linear.
- 52. (Withdrawn) A docking mechanism according to claim 50 wherein movement of said grasping element is linear.
- 53. (Withdrawn) A docking mechanism according to claim 51 wherein the movement of said graspable element is substantially perpendicular to the movement of said grasping element.
- 54. (Withdrawn) A docking mechanism according to claim 52 wherein the movement of said graspable element is substantially perpendicular to the movement of said grasping element.
- 55. (Withdrawn) A docking mechanism according to claim 50, wherein said actuator is a linear actuator which moves along a linear path.
- 56. (Withdrawn) A docking mechanism according to claim 50, wherein said actuator is pneumatic.
- 57. (Withdrawn) A docking mechanism according to claim 50, wherein said actuator is an electrical solenoid.
- 58. (Withdrawn) A docking mechanism according to claim 50, wherein said graspable element is a cam follower and said grasping member includes a cam.
- 59. (Withdrawn) A docking mechanism according to claim 50, wherein said detector is one of a pneumatic switch and an electrical switch.

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60. (Withdrawn) A docking mechanism according to claim 50, wherein said module is adjustable relative to said test head or said peripheral to which said module is mounted in an X, Y and Z direction.

61. (Currently Amended) A docking module comprising:

a feature detector for detecting a feature,

a movable feature receptacle; and

an actuator which, responsive to detection of said feature, moves a moveable feature of said moveable feature receptacle to capture said feature and pull said feature in a linear direction as said moveable feature moves in a direction different than said linear direction.

62. (Currently Amended) A docking module comprising:

a feature detector for detecting a feature,

a movable feature receptacle; and

an actuator which, responsive to detection of said feature, moves a moveable feature of said moveable feature receptacle to capture said feature and pull said feature in a linear direction A docking module according to claim 61, wherein said docking module is one of a plurality of docking modules which are coupled to one of a test head and a peripheral, and said feature is one of a plurality of features coupled to the other of said test head and said peripheral, actuation of each actuator causes said test head to be docked to said peripheral.

- 63. (Original) A docking module according to claim 61, wherein said actuator is a linear actuator
- 64. (Original) A docking module according to claim 61, wherein said actuator is pneumatic.
- 65. (Original) A docking module according to claim 61, wherein said actuator is an electrical solenoid.
- 66. (Original) A docking module according to claim 61, wherein said moveable feature moves perpendicular to said linear direction.

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67. (Original) A docking module according to claim 61, wherein said module feature is moved along a linear path.

- 68. (Currently Amended) A docking module according to claim 61, wherein said <u>moveable</u> feature is a cam follower and said moveable feature receptacle includes a cam.
- 69. (Original) A docking module according to claim 61, wherein said feature detector is one of a pneumatic switch and an electrical switch.
- 70. (Original) A docking module according to claim 62, wherein said module is adjustable relative to said one of said test head and said peripheral in an X, Y and Z direction.
 - 71. (Currently Amended) A method of docking, said method comprising the steps of:
 - a) detecting a feature using a feature detector;
- b) actuating an actuator, responsive to detection of said feature, in order to move a moveable feature of a moveable feature receptacle in order to capture said feature and pull said feature in a linear directionA method of docking according to claim 85, wherein said feature is a docking pin and said moveable feature receptacle is a pin receptacle, said method further comprising the step of

inserting said docking pin coupled to a test head into said pin receptacle coupled to a peripheral, said docking pin including a cam follower situated on at least one side of said docking pin; and step b) includes the

step of said moveable feature which is part of said sliding said pin receptacle so that said cam follower moves along a groove in said pin receptacle in order to move said test head towards said peripheral.

- 72. (Original) The method of claim 71, wherein said pin receptacle slides under power.
- 73. (Original) The method of claim 71, wherein movement of a piston causes said pin receptacle to slide.

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74. (Original) The method of claim 71, wherein said pin receptacle slides as a result of rotation of an arm.

- 75. (Original) The method of claim 71, wherein force is applied to one end of an arm which rotates about a pivot point so that another end of said arm slides said pin receptacle.
- 76. (Original) The method of claim 71, wherein said groove follows a path extending between sides of said pin receptacle with one end of said path deeper into said pin receptacle than another end of said path.
 - 77. (Canceled)
 - 78. (Canceled)
 - 79. (Canceled)
 - 80. (Canceled)
 - 81. (Canceled)
 - 82. (Canceled)
 - 83. (Canceled)
 - 84. (Canceled)
 - 85. (Currently Amended) A method of docking,

said method comprising the steps of:

- a) detecting a feature using a feature detector;
- b) actuating an actuator, responsive to detection of said feature, in order to move a moveable feature of a moveable feature receptacle in order to capture said feature and pull said feature in a linear direction as said moveable feature moves in a direction different than said linear direction.